

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant: Susumu Hashimoto et al.  
Title: MAGNETORESISTANCE EFFECT ELEMENT WITH  
IMPROVED ANTIFERROMAGNETIC LAYER  
Prior Appl. No.: 09/146,222  
Prior Appl. Filing Date: 09/02/1998  
Prior. Appl. Examiner: W. Korzuch  
Prior Appl. 2754  
Art Unit:

**CONTINUING PATENT APPLICATION**  
**TRANSMITTAL LETTER**

Commissioner for Patents  
Box PATENT APPLICATION  
Washington, D.C. 20231

Sir:

Transmitted herewith for filing under 37 C.F.R. § 1.53(b) is a:

☒ Continuation    ☐ Division    ☐ Continuation-In-Part (CIP)

of the above-identified copending prior application in which no patenting, abandonment, or termination of proceedings has occurred. Priority to the above-identified prior application is hereby claimed under 35 U.S.C. § 120 for this continuing application. The entire disclosure of the above-identified prior application is considered as being part of the disclosure of the accompanying continuing application and is hereby incorporated by reference therein.

☐ Applicant claims small entity status under 37 CFR 1.27.

Enclosed are:

- ☒ Specification, Claim(s), Drawings, and Abstract (21 pages)
- ☒ Reissue Declaration under 37 C.F.R. § 1.175 (7 pages)
- ☒ Assent of Assignee (copy from parent application)
- ☒ Revocation and New Power of Attorney (copy from parent application)
- ☒ Offer to Surrender (copy from parent application)
- ☒ Certificate under 37 C.F.R. 3.73(b) (copy from parent application)
- ☒ Information Disclosure Statement

☒ Form PTO-1449☒ Preliminary Amendment

☐ A Petition for Extension of Time (5 Months) and appropriate fee is being filed in the U.S. Patent and Trademark Office today, February 20, 2001, in parent application 09/146,222. This extension of time is timely filed because February 18, 2001 fell on a Sunday, and Monday, February 19, 2001 was a federal holiday.

The filing fee is calculated below:

	Claims as Filed	Included in Basic Fee	Extra Claims	Rate	Fee Totals
Basic Fee				\$710.00	\$710.00
Total Claims:	27	- 20	= 7	x \$18.00	= \$126.00
Independents:	3	- 3	= 0	x \$80.00	= \$0.00
If any Multiple Dependent Claim(s) present:				+ \$270.00	= \$0.00
				SUBTOTAL:	= \$836.00
<input type="checkbox"/> Small Entity Fees Apply (subtract 1/2 of above):					= \$0.00
				TOTAL FILING FEE:	= \$0.00

☒ A check in the amount of \$836.00 to cover the filing fee is enclosed.

☐ The required filing fees are not enclosed but will be submitted in response to the Notice to File Missing Parts of Application.

☒ The Commissioner is hereby authorized to charge any additional fees which may be required regarding this application under 37 C.F.R. §§ 1.16-1.17, or credit any overpayment, to Deposit Account No. 19-0741. Should no proper payment be enclosed herewith, as by a check being in the wrong amount, unsigned, post-dated, otherwise improper or informal or even entirely missing, the Commissioner is authorized to charge the unpaid amount to Deposit Account No. 19-0741.

Please direct all correspondence to the undersigned attorney or agent at the address indicated below.

Respectfully submitted,

Date 20 February 2001

FOLEY & LARDNER  
Washington Harbour  
3000 K Street, N.W., Suite 500  
Washington, D.C. 20007-5109  
Telephone: (202) 672-5489  
Facsimile: (202) 672-5399

By George E. Quillen 32,192  
for Johnny A. Kumar  
Attorney for Applicant  
Registration No. 34,649

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Attorney Docket No. 016907/0935

In re reissue patent application of

Susumu Hashimoto et al.

Serial No: Not yet assigned

Application for reissue of U.S. Patent No.  
5,552,949, granted September 3, 1996

Filed: Herewith

For: MAGNETORESISTANCE EFFECT ELEMENT WITH IMPROVED  
ANTIFERROMAGNETIC LAYER

OFFER TO SURRENDER

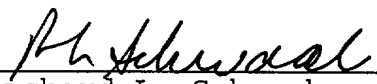
Assistant Commissioner for Patents  
Washington, D.C. 20231

Sir:

Applicants hereby offer to surrender the original Patent  
5,552,949.

Respectfully submitted,

September 2, 1998  
Date

  
\_\_\_\_\_  
Richard L. Schwaab  
Reg. No. 25,479

FOLEY & LARDNER  
3000 K Street, N.W.,  
Suite 500  
Washington, DC 20007-5109  
Tel: (202) 672-5300

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CERTIFICATE UNDER 37 C.F.R. 3.73(b)

KABUSHIKI KAISHA TOSHIBA, a corporation, certifies that  
it is the assignee of the entire right, title and interest  
in the patent application identified above by virtue of  
either:

A. [X]    An assignment from the inventor(s) of the patent  
application identified above. The assignment was recorded  
in the Patent and Trademark Office at Reel 6965 , Frame 306 ,  
or for which a copy thereof is attached.

OR

B. []        A chain of title from the inventor(s), of the  
patent application  
identified above, to the current assignee as shown below:

1. From: To:

The document was recorded in the Patent and Trademark Office at Reel , Frame , or for which a copy thereof is attached.

2. From: To:

The document was recorded in the Patent and Trademark Office at Reel , Frame , or for which a copy thereof is attached.

3. From: To:

The document was recorded in the Patent and Trademark Office at Reel , Frame , or for which a copy thereof is attached.

[] Additional documents in the chain of title are listed on a supplemental sheet.

[] Copies of assignments or other documents in the chain of title are attached.

The undersigned has reviewed all the documents in the chain of title of the patent application identified above and, to the best of undersigned's knowledge and belief, title is in the assignee identified above.

The undersigned (whose title is supplied below) is empowered to sign this certificate on behalf of the assignee.

I hereby declare that all statements made herein of my own knowledge are true, and that all statements made on information and belief are believed to be true; and further, that these statements are made with the knowledge that willful false statements, and the like so made, are punishable by fine or imprisonment, or both, under Section

100-34366

[illegible]

*G. Foster*

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Attorney Docket No. 016907/0935

In re reissue patent application of

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ASSENT OF ASSIGNEE

Assistant Commissioner for Patents  
Washington, D.C. 20231

Sir:

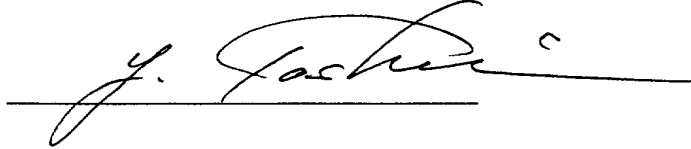
The undersigned assignee of the entire right, title and interest to the United States Letters Patent 5,552,949 hereby assents to the accompanying reissue application and offers to surrender said Letters Patent.

Date: August 27, 1998

Name: Yoshikuni Tashiro

Title: General Manager, Intellectual Property Division

Signature:

A handwritten signature in dark ink, appearing to read "J. Fashen", is written over a horizontal line.

FOLEY & LARDNER

3000 K Street, N.W.,

Suite 500

Washington, DC 20007-5109

Tel: (202) 672-5300

672-5300



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Attorney Docket No. 016907/0935

In re reissue patent application of

Susumu Hashimoto et al.

Serial No: Not yet assigned

Application for reissue of U.S. Patent No.  
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ANTIFERROMAGNETIC LAYER

REVOCATION AND NEW POWER OF ATTORNEY

Assistant Commissioner for Patents  
Washington, D.C. 20231

Sir:

The undersigned assignee of the above patent hereby  
revokes all previous powers of attorney in connection with  
this patent, and hereby appoints as its attorneys, with full  
power of substitution and revocation, to prosecute the  
above-identified reissue application and transact all other  
business in the Patent and Trademark Office in connection  
with said patent:

Stephen A. Bent, Reg. No. 29,768; David A. Blumenthal,  
Reg. No. 26,257; John J. Feldhaus, Reg. No. 28,822; Eugene M.  
Lee, Reg. No. 32,039; Peter G. Mack, Reg. No. 26,001; Brian  
J. McNamara, Reg. No. 32,789; Sybil Meloy, Reg. No. 22,749;  
George E. Quillin, Reg. No. 32,792; Colin G. Sandercock, Reg.  
No. 31,298; Bernhard D. Saxe, Reg. No. 28,665; Richard L.

Schwaab, Reg. No. 25,479; Arthur Schwartz, Reg. No. 22,115;  
Harold C. Wegner, Reg. No. 25,258; Richard Linn, Reg. No.  
25,144, Johnny A. Kumar, Reg. No. 34,649.

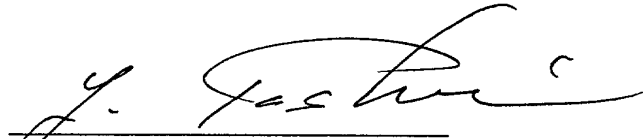
It is requested that all correspondence be sent to:

Richard L. Schwaab  
FOLEY & LARDNER  
Suite 500, 3000 K Street, N.W.  
Washington, D.C. 20007-5109  
Tel: 202-672-5414

It is certified that the person whose signature appears  
below has the authority to make these changes.

Respectfully submitted,

KABUSHIKI KAISHA TOSHIBA

A handwritten signature in dark ink, appearing to read 'Y. Tashiro', is written over a horizontal line.

Date August 27, 1998

By: Yoshikuni Tashiro

Title: General Manager, Intellectual  
Property Division

FOLEY & LARDNER